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on , Apr 2001

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Multimedia, IEEE Transactions on , Volume: 1 Issue: 1 , March 1999

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3 Motion estimation for high performance transcoding

Jeongnam Youn; Ming-Ting Sun; Chia-Web Lin

Consumer Electronics, IEEE Transactions on , Volume: 44 Issue: 3 , Aug. 199

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4 Motion vector quantization in a rate-distortion framework

Regunathan, S.L.; Rose, K.

Image Processing, 1997. Proceedings., International Conference on , 1997

Page(s): 21 -24 vol.2

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5 Hierarchical motion estimation with 2-scale tilings

Paul, B.-B.; Viscito, E.

Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conferenc

Volume: 3 , 1994

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- L1: (2986) scal\$ near4 vector\$
- L2: (2379) motion near3 estimat\$
- L3: (187) 1 and 2
- L4: (2543) scal\$ near3 vector\$
- L5: (166) 2 and 4
- L6: (38130) 375/\$
- L7: (86) 5 and 6
- L8: (9) (scal\$ near3 (forward\$ or backward\$)) near5 vector\$
- L9: (3) (scal\$ near3 (forward\$ or backward\$)) same (motion near3 vector\$)**

(0) (scal\$ near3 (forward\$ or backward\$)) same (motion near3 vector\$)

Details Preview

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```
(scal$
near3
(forward$
or
backward$
)) same
(motion
near3
vector$)
```

	U	Document	Issue	Page	Title	Current	Current	Retrieval	Inventor	S	C	P	2	3
1	<input type="checkbox"/>	US 59055	199905	25	Picture decoding	375/240	375/240.		Sumihiro, Hir	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	US 58254	199810	13	Video coding meth	375/240	348/699		Tan, Thiew Ke	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	US 52530	199310	36	Spatial/frequency	375/240	375/240.		Puri, Atul	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1/9/1

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13700580

Basic Patent (No,Kind,Date): EP 782343 A2 19970702 <No. of Patents: 004>

PATENT FAMILY:

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 782343 A2 19970702
VIDEO CODING METHOD (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): TAN THIOU KENG (SG)
Priority (No,Kind,Date): JP 95340609 A 19951227
Applic (No,Kind,Date): EP 96120920 A 19961227
Designated States: (National) DE; FR; GB; IT; NL
IPC: * H04N-007/50; H04N-007/46
Derwent WPI Acc No: * G 97-335314; G 97-335314
Language of Document: English

Patent (No,Kind,Date): EP 782343 A3 20001220
VIDEO CODING METHOD (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): TAN THIOU KENG (SG)
Priority (No,Kind,Date): JP 95340609 A 19951227
Applic (No,Kind,Date): EP 96120920 A 19961227
Designated States: (National) DE; FR; GB; IT; NL
IPC: * H04N-007/50; H04N-007/46; H04N-007/26
Derwent WPI Acc No: * G 97-335314
Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 782343	P	19951227	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
				JP 95340609 A 19951227
EP 782343	P	19961227	EP AE	EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
				EP 96120920 A 19961227
EP 782343	P	19970702	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
				DE FR GB IT NL
EP 782343	P	19970702	EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 782343	P	20001213	EP RIC1	CLASSIFICATION (CORRECTION) (KLASSIFIKATION (KORR.))
				7H 04N 7/50 A, 7H 04N 7/46 B, 7H 04N 7/26 B
EP 782343	P	20001220	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
				DE FR GB IT NL
EP 782343	P	20001220	EP A3	SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))

JAPAN (JP)

Patent (No,Kind,Date): JP 9182083 A2 19970711
VIDEO IMAGE ENCODING METHOD AND DECODING METHOD AND DEVICE THEREFOR (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): TAN TEIO KEN
Priority (No,Kind,Date): JP 95340609 A 19951227

Applic (No,Kind,Date): JP 95340609 A 19951227
IPC: * H04N-007/32; H03M-007/36
Derwent WPI Acc No: * G 97-335314
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5825421 A 19981020
VIDEO CODING METHOD AND DECODING METHOD AND DEVICES THEREOF (English)
Patent Assignee: MATSUSHITA ELECTRONIC IND CO L (JP)
Author (Inventor): TAN THIEW KENG (SG)
Priority (No,Kind,Date): JP 95340609 A 19951227
Applic (No,Kind,Date): US 773574 A 19961227
National Class: * 348409000; 348413000; 348415000; 348699000
IPC: * H04N-007/32
Derwent WPI Acc No: * G 97-335314
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5825421	P	19951227	US AA	PRIORITY (PATENT)
			JP 95340609 A	19951227
US 5825421	P	19961227	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 773574 A	19961227
US 5825421	P	19970715	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.	
			1006, OAZA KADOMA, KADOMA-SHI OSAKA, JA ;	
			TAN, THIEW KENG : 19970303	
US 5825421	P	19981020	US A	PATENT
US 5825421	P	19990713	US CC	CERTIFICATE OF CORRECTION
US 5825421	P	20010306	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20001018	
US 5825421	P	20010313	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20001018	

LEVEL 1 - 1 OF 1 PATENT

5,825,421

<=2> GET 1st DRAWING SHEET OF 6

Oct. 20, 1998

LEXIS-NEXIS
Library: PATENT
File: ALL

Video coding method and decoding method and devices thereof

REISSUE: Reissue Application filed Oct. 18, 2000 (O.G. Mar. 13, 2001) Ex. Gp.:
2613; Re. S.N. 09/691,858

Reissue Application filed Oct. 18, 2000 (O.G. Mar. 6, 2001) Ex. Gp.: 2613;
Re. S.N. 09/691,857

CERTCORR: Jul. 13, 1999 a Certificate of Correction was issued for this patent

CORE TERMS: vector, delta, backward motion, module, sequence, encoding, scaled,
prediction, picture, forward motion...

5,825,421 OR 5825421

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1/5 LGST (1/1) - (C) LEGSTAT
PN - US 5825421 [US5825421]
AP - US 773574/96 19961227 [1996US-0773574]
DT - US-P
ACT - 19961227 US/AE-A
APPLICATION DATA (PATENT)
{US 773574/96 19961227 [1996US-0773574]}
- 19970715 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI
OSAKA, JA * TAN, THIOU KENG : 19970303
- 19981020 US/A
PATENT
- 19990713 US/CC
CERTIFICATE OF CORRECTION
- 20010306 US/RF
REISSUE APPLICATION FILED
20001018
- 20010313 US/RF
REISSUE APPLICATION FILED
20001018
UP - 2001-12

2/5 CRXX (1/1) - (C) CLAIMS/RRX
AN - 3059044
PN - 5,825,421 A 19981020 [US5825421]
PA - Matsushita Electric Industrial Co Ltd JP
PT - E (Electrical)
ACT - 20001018 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010306
REISSUE REQUEST NUMBER: 09/691857
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2613

Reissue Patent Number:

- 20001018 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010313
REISSUE REQUEST NUMBER: 09/691858
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2613

Reissue Patent Number:

UP - 1999-27
UACT- 2001-03-13

3/5 PAST (1/3) - (C) PAST
AN - 200111-001324
PN - 5825421 A [US5825421]
DT - A (UTILITY)
OG - 2001-03-13
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

4/5 PAST (2/3) - (C) PAST
AN - 200110-000911
PN - 5825421 A [US5825421]
DT - A (UTILITY)
OG - 2001-03-06
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

5/5 PAST (3/3) - (C) PAST
AN - 199928-000274
PN - 5825421 A [US5825421]
DT - A (UTILITY)
OG - 1999-07-13
CO - COR
ACT - CERTIFICATE OF CORRECTION
SH - CERTIFICATE OF CORRECTION